

encanaTM



West Fork 13D N23 596

SE/SW - Section 23 –T5S, R96W

FEE/FEE

Garfield County, Colorado

API # 05-045-11051

Lat. 39.595851 / Long. -108.136898

P&A Procedure

November 8, 2013

Engineer: Thomas Joyce

Production Group Lead: Jerry Dietz

API Number:	05-045-11051	
Spud Date:	April 15, 2006	
GL Elevation:	6,103 ft	
KB Elevation:		
TD:	8837 ft	
PBTD:	8806 ft	
Surface Casing:	9 5/8" OD, 36 lb./ft. J-55, set at 800 ft.	
Surface Casing Properties:	ID:	8.921"
	Drift ID:	8.765"
	Collapse:	2,020 psig
	Burst:	3,520 psig
	Joint Yield Strength:	564,000 lb
	Capacity:	0.0773 BBL/ft
	Capacity 20" x 9 5/8" casing:	0.2653 BBL/ft
Production Casing:	4 1/2" OD, 11.6 lb/ft, N-80, set at 9117 ft.	
Production Casing Properties:	ID:	4.052"
	Drift ID:	3.927"
	Collapse:	4,010 psig
	Burst:	4,790 psig
	Joint Yield Strength:	132,000 lb
	Capacity:	0.0159 BBL/ft
	Capacity 4 1/2" casing x 8 5/8" casing:	0.0440 BBL/ft
	Capacity 4 1/2" casing x 7 7/8" hole:	0.0406 BBL/ft
Tubing:	2 .375" OD, N-80, set at 6544 ft.	
Tubing properties:	ID:	1.751"
	Drift ID:	1.657"
	Coupling OD:	2.325"
	Collapse:	7,690 psig
	Burst:	7,280 psig
	Joint Yield Strength:	49,070 lb
	Capacity:	0.00298 BBL/ft
	Capacity 2 3/8" tubing x 4 1/2" casing:	0.0118 BBL/ft
Perfs:	5444' to 8681'	

Objective

Plug and abandon the West Fork 13D N23 596

Safety

Safety meetings are to be held with all service company personnel prior to each job. Wellsite supervisor must notify contractors as to known hazards of which the contractors may be unaware. Well site supervisor must ensure that all workers are aware of their responsibilities and duties under the EH&S guidelines. All safety meetings will be recorded on the EnCana daily completion reports in Well View. Wellsite supervisor is responsible to ensure that all utility one calls and ground disturbance forms are completed and on location for safety review. All JSA, Ground disturbance forms and Utility one call paper work is to be turned in to Rangely safety department at the completion of the job.

Regulations

All verbal notifications and approval from government regulatory agencies will be recorded on the Encana daily report. The name of the individual contacted and the subject matter of approval or notification will be recorded.

Plug & Abandon Procedure

1. Notify the COGCC at least 48 hours before plugging operations commence.
2. Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
3. MIRU pulling unit.
4. ND wellhead, NU BOP.
5. Load hole.
6. TOH with tubing. LD any bad joints.
7. MIRU wireline unit.
8. RIH with wireline and set Cement retainer at 5,394 ft.
9. Sting into retainer and squeeze 80 sacks (16 bbls.) cement below retainer to cover approximately 1000 feet of perms below the retainer.
10. Sting out of the retainer and spot 10 sacks (2 bbls) cement on retainer @ at 5,395 ft.
11. TOH with tubing
12. RU wireline and RIH with CIBP & set @ 2550'. 50 feet below the surface shoe @ 2500'.
13. ROH with wireline and pick up perf gun. RIH w/ perf gun to 2550'. Shoot perms @ 2550'
14. ROH w/ wireline and RD. Release wireline.
15. Attempt to establish circulation to surface up 4 ½" x 9 5/8" casing annulus.
16. TIH w/ Tubing to 2550'. Pump a total of 45sacks (9 bbls) cement. 6 ½ bbls. should be in 4 ½" casing annulus, and 2 ½ BBL should be in the 4 ½" casing.
17. TOH with tubing.
18. Dig down and cut off wellhead 4 feet below ground level. Ensure that all cement in the annular spaces and 4 ½" casing are topped off to surface.
19. Run 1 inch in casing annulus to 100 feet and fill to surface w/ cement. Run 1 inch in 4 ½" casing to 100 feet and cement to surface.
20. Weld information plate to casing stub, take GPS readings of well information plate for regulatory agencies and back fill hole.
21. RDMO workover rig.